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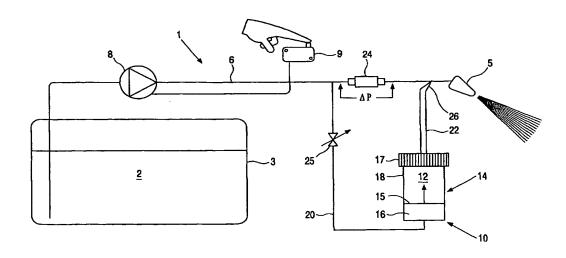
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(54) Title: HOUSEHOLD APPLIANCE AND DISPENSING SYSTEM FOR DISPENSING A FLUID AND AN ADDITIVE



(57) Abstract: A household appliance has a fluid dispensing system for dispensing a fluid (2) and a dosing system for dosing an additive into the fluid (2). The fluid dispensing system comprises fluid supply means (3,8), a dispensing nozzle (5), and a conduit (6) connecting the supply means to the dispensing nozzle (5). The dosing system comprises an additive reservoir (14) for containing the additive (12) and an outlet (22) connecting the additive reservoir (14) to the dispensing system. Pumping means (8,15,16) are provided for pumping the fluid (2) and the additive (12) towards the dispensing nozzle (5). A reliable dosing of additive is achieved in that the outlet (22) of the additive (12) communicates with the conduit (6) in a position downstream of said pumping means. A dispensing system for such an appliance is described.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D06F75/14 D06F75/22 B01F5/04 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) B01F D06F IPC 7 A47L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages 1-10 US 3 166 096 A (H. LANG) X 19 January 1965 (1965-01-19) the whole document 1,2,10 WO 99 27176 A (SEB S.A.) Α 3 June 1999 (1999-06-03) cited in the application claims; figures Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance Invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 06/05/2003 22 April 2003 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Courrier, G



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Patent document cited in search report	Publication date		Patent family member(s)		Publication date
US 3166096	A	19-01-1965	1-1965 NONE		
WO 9927176	Α	03-06-1999	FR AU EP WO JP US	2771424 A1 1340499 A 0954629 A1 9927176 A1 2001509723 T 6128839 A	28-05-1999 15-06-1999 10-11-1999 03-06-1999 24-07-2001 10-10-2000